Lesson Plan 1

Week 7

Gil Trevino

EDTC 614

Title – Mole multimedia project

Overview of lesson – This lesson entails the use of technology in order for the students to display knowledge of the topic of moles in reference to chemistry. The assignment requires students to show their understanding of the mole by producing a multimedia project using pictures found on the internet. The students would have a choice of using prezi or animoto to put together a presentation that shows their knowledge of the topic. Additionally, the students will fill out a form that gives information as to why the pictures they chose were appropriate for the project. This lesson gives the instructor insight as to whether the students learned the concept.

Resources – Computer lab or mobile computing cart, access to internet, prior lesson on the mole, a laptop computer and projector for presentation, worksheet for explanation of why picture was chosen.

NETS – S Standards

* 1. a – Apply existing knowledge to generate new ideas, products or processes.
* 1. b – Create original works as a means of personal or group expression.
* 2.a – Interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media
* 2. b – Communicate information and ideas effectively to multiple audiences using a variety of media and formats.
* 3. a - Plan strategies to guide inquiry.
* 3. b – Locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media.
* 3. c – Evaluate and select information sources and digital tools based on the appropriateness to specific tasks.
* 3. d – Process data and report results.
* 4. b – Plan and manage activities to develop a solution or complete a project.
* 5. a – Advocate and practice safe, legal and responsible use of information and technology.
* 5. b – Exhibit a positive attitude toward using technology that supports collaboration, learning, and productivity.
* 6. b - Select and use applications effectively and productively.
* 6. d – Transfer current knowledge to learning of new technologies.

District Goals addressed – As addressed in CCSD Teaching and Learning Project.

* 1b – Use assessment to diagnose student learning.
* 1c – Gather, select, and prepare resources.
* 1b, 2a, 3a, 3c – Demonstrate knowledge of content and culturally responsive pedagogy.
* 3c – Engage students in learning.
* 1e – Use a variety of assessment techniques; assess student engagement and academic progress.

CCSD High School Science Standards –

* S1.2 – Select and use appropriate technologies to gather, process, and analyze data and to report information related to an investigation.
* S1.4 – Recognize and analyze alternative explanations and models.
* Science Standard 2 – Students know and understand common properties, forms, and changes in matter and energy.

Student learning objectives

* Students will use a variety of media to display knowledge of the concept of the mole in chemistry.
* Students will cite sources of information to show digital citizenship.

Learning Activities – Prior to this lesson, the concept of the mole must be taught. This lesson should be used as a formative assessment to show whether the students learned the concept.

1. Introduce the concept of the mole to chemistry students.
2. Discuss the use of multimedia and why this lesson is being taught.
3. Go over guidelines for the project and how they will be graded. This also includes the citation of sources.
4. Demonstrate to students how to use either prezi or animoto to put their projects together.
5. Establish timelines for project completion.
6. Allow class time for presentation of projects.
7. Evaluate projects and presentations and give feedback to students allowing for improvements to be made.

Your mission today is to create a multimedia presentation using images found on the internet that display what a mole is in the world of chemistry. You will be given a choice on how to display your research. Additionally you will fill out the attached worksheet that explains why you chose an image **and** the source of the image. You may choose a partner to work with or work alone. Choose your media you will use and follow the steps below.

Prezi Presentation –

1. Type in the following address into the URL bar. <http://prezi.com>
2. Click the sign-up now button.
3. Choose public ( Free)
4. Enter information to receive a free account.
5. Click the new prezi button.
6. Enter information for a title of your project and a description.
7. View the video in getting started with prezi to learn how to navigate the wheel in the upper left corner.
8. Search for images that show what a mole is; make sure you have a reason because you will have to explain why you chose that image.
9. Have fun!!

Animoto Presentation –

1. Type the following address into the URL bar. <http://animoto.com>
2. Click the sign up button.
3. Register for a free (basic) account.
4. Enter information to activate free account.
5. Click on the create one button.
6. Open a new tab in your browser to begin searching for images to use in the project. Remember, choose wisely because you will have to explain why that image was chosen.
7. Select background theme. Make you select make a free video!!
8. Upload images.
9. Choose music.
10. Complete video.

Directions – Insert image into this document. Note – Please resize image to fit the box provided. Use the OHS citation tool to document where the image you used was found and paste the citation into the space provided. Lastly, state why this image was chosen for your presentation.

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| --- | --- | --- |
| Photo | Source | Why was this image chosen? |
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Scoring guidelines

Project

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| --- | --- | --- | --- |
|  | Unsatisfactory (0pts) | Proficient (5pt) | Advanced (10pts) |
| Proper use of citations | Student does not include citations | Student includes source information, but not in correct format | Student citations are in correct format and complete |
| Appropriateness of images | Images used do not relate to the mole | Images related to the mole, but either too few or some not correct. | All images related to the mole. |
| Explanation of images | Student cannot explain why image was chosen | Student has many reasons why image was chosen, but may be wrong. | Student can correctly explain why image was chosen |
| Project completed within timeline | Project more than 1 week late | Project complete 1 to 2 days beyond due date | Project completed before due date. |

Presentation

|  |  |  |  |
| --- | --- | --- | --- |
|  | Unsatisfactory ( 0pts) | Proficient ( 5pts) | Advanced (10pts) |
| Picture explanation | Student cannot correctly explain why image was chosen | Student can correctly identify why most of the images were chosen | Student can correctly identify why all images were chosen |
| Overall presenting skills | Presenter not using clear communicative skills. | Presenter can be heard by most students and or using bad grammar for explanation | Presenter can clearly be heard throughout the class and is using proper grammar |

Adaptations –

Special needs – Student can be allowed to present only to instructor.

Project can be shortened to appropriate length for student.

Individual attention can be given to special needs student to assure success.

Advanced students – Students can combine video and prezi together for more complete project.

Student can investigate other online media source for use to present materials.